

2013

Maryland Annual HIV Epidemiological Profile

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Data reported through December 31, 2014

Center for HIV Surveillance, Epidemiology and Evaluation Infectious Disease Epidemiology and Outbreak Response Bureau Prevention and Health Promotion Administration Maryland Department of Health and Mental Hygiene http://phpa.dhmh.maryland.gov/oideor/chse 1-800-358-9001

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Section I - Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website: http://phpa.dhmh.maryland.gov/oideor/chse/sitepages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5061.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis. Nationally, it has been estimated that 14% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. In addition, many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

It is important to note that HIV surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of HIV disease data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old cases. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (the end of the year) are used to generate the number of diagnoses during the prior years. This one-year lag allows for delays in reporting and time to complete investigations. For example, the Reported HIV Diagnoses for 2013 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2013-12/31/2014, as reported by name through 12/31/2014.

To calculate the number of Living Cases we count all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 12/31/2014 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2014 as reported by name through 12/31/2014.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4 cells per microliter of blood. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured at least 2-3 times per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), December 31, 2014.

Live births are from the Maryland Department of Health and Mental Hygiene's Maryland Vital Statistics Annual Report 2013.

Perinatal exposures and transmissions are from the Maryland Department of Health and Mental Hygiene's Enhanced Perinatal Surveillance System, December 31, 2014.

Population data by sex, age, and race is from the July 1, 2013 U.S. Census Estimates and by country-of-birth from the 2013 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM (Men who have Sex with Men): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or to be at high risk for an HIV infection. High risk groups include bisexual men, IDUs, and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Section II – Trends 1985-2013

This section discusses trends of new diagnoses, deaths, and living cases reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2014. This section describes characteristics of the trends in new HIV diagnoses based on sex at birth, age group, race and ethnicity, and exposure category providing insight into where current prevention and early treatment strategies should be focused.

In Maryland, confidential name based HIV reporting started in 2007 with many HIV cases reported by recent diagnosis and not by earliest diagnosis, resulting in an artificial peak of reported HIV diagnoses during 2001-2008, as evident in figure 1.

A few important numbers:

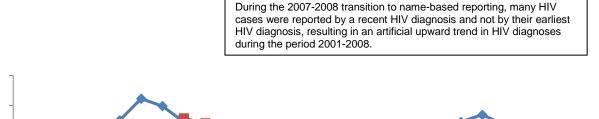
- 1,396 HIV diagnoses (reported HIV cases with or without an AIDS diagnosis) in 2013
- 956 AIDS diagnoses (reported HIV cases with an AIDS diagnosis) in 2013
- 391 Deaths in AIDS cases in 2013
- 13,850 Living HIV Cases without AIDS on 12/31/2013
- 16,909 Living HIV Cases with AIDS on 12/31/2013
- 30,759 Living HIV Cases on 12/31/2013

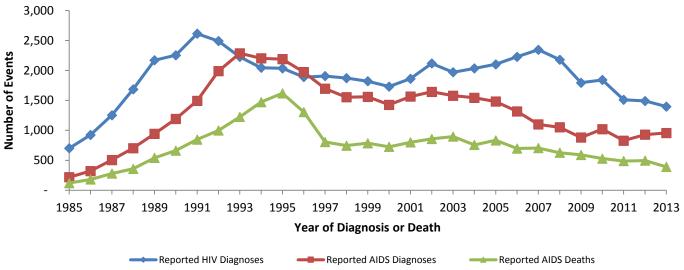
Highlights for trends 1985-2013:

- The number of deaths due to AIDS follows an upward trend from 1985 to 1995 and then declines to 391 in 2013.
- There was an increase in the total number of living HIV cases with AIDS from 171 in 1985 to 16,909 in 2013.
- Reported HIV diagnoses in males decreased from 85% in 1985 to 63% in 2000, held mostly stable at around 62% from 2001 to 2007, but then gradually increased to 71% in 2013.
- Diagnoses are greatest in non-Hispanic blacks at 75% in 2013.
- Diagnoses are lowest in Hispanics at approximately 6% and 15% in non-Hispanic whites.
- HIV diagnoses are greatest in the age group of 20-29 years at 30%, followed by 30-39 year olds at 23%, 40-49 year olds at 22%, and 50-59 year olds at 14%.
- There has been a decline from 29% in 1985 to 5% in 2013 of those being exposed via Injection Drug Use (IDU).
- Those being exposed through Men who have Sex with Men (MSM) has decreased from approximately 51% in 1985 to 20% in 2001, but has steadily increased to 53% in 2013.
- There has been an increase from 5% in 1985 to 40% in 2013 of those being exposed via Heterosexual contact (HET).

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2013, Reported through 12/31/2014

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnosis) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2013 as Reported through 12/31/2014

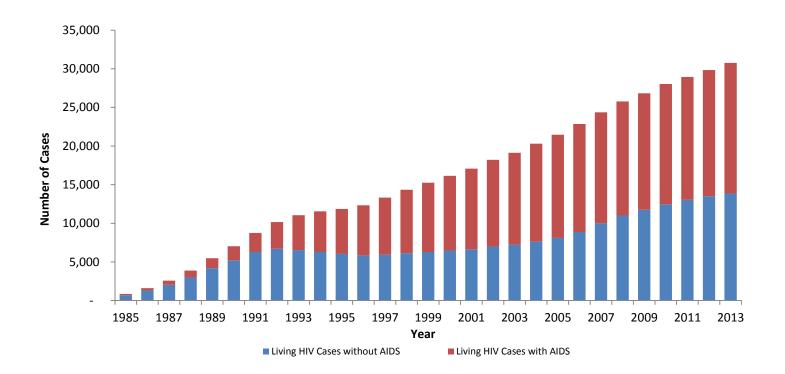




YEAR OF DIAGNOSIS OR DEATH	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	YEAR OF DIAGNOSIS OR DEATH	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	354	170	72	1999	1,821	1,561	786
1985	701	218	120	2000	1,731	1,427	726
1986	925	320	180	2001	1,862	1,565	800
1987	1,253	505	279	2002	2,117	1,643	858
1988	1,686	703	358	2003	1,971	1,579	897
1989	2,171	943	541	2004	2,035	1,545	758
1990	2,255	1,192	662	2005	2,103	1,482	834
1991	2,615	1,493	847	2006	2,228	1,317	697
1992	2,491	1,989	998	2007	2,333	1,099	704
1993	2,227	2,287	1,225	2008	2,179	1,051	627
1994	2,046	2,203	1,472	2009	1,795	880	591
1995	2,036	2,190	1,619	2010	1,842	1,020	529
1996	1,891	1,973	1,305	2011	1,511	828	488
1997	1,906	1,697	805	2012	1,491	929	495
1998	1,873	1,554	746	2013	1,396	956	391
		· · ·		TOTAL	54,845	38,319	21,410

Figure 2 - Trends in Living HIV Cases, 1985-2013, Reported through 12/31/2014

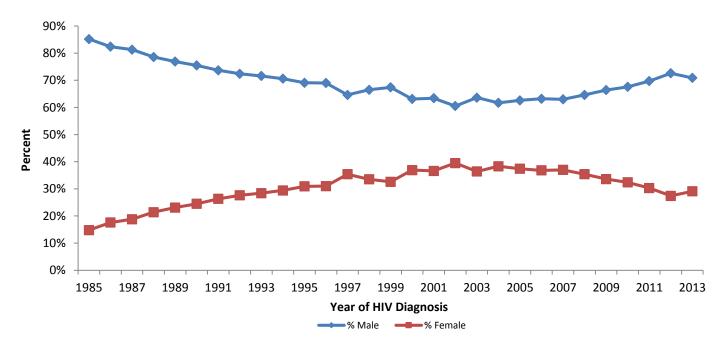
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2013, as Reported through 12/31/2014



YEAR	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	YEAR	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	692	173	865	1999	6,292	8,972	15,264
1986	1,292	313	1,605	2000	6,480	9,673	16,153
1987	2,031	540	2,571	2001	6,642	10,440	17,082
1988	2,997	885	3,882	2002	6,996	11,225	18,221
1989	4,185	1,287	5,472	2003	7,230	11,907	19,137
1990	5,218	1,818	7,036	2004	7,614	12,694	20,308
1991	6,294	2,464	8,758	2005	8,118	13,343	21,461
1992	6,710	3,458	10,168	2006	8,884	13,964	22,848
1993	6,538	4,520	11,058	2007	9,994	14,361	24,355
1994	6,294	5,253	11,547	2008	10,985	14,788	25,773
1995	6,029	5,826	11,855	2009	11,750	15,077	26,827
1996	5,841	6,497	12,338	2010	12,447	15,569	28,016
1997	5,941	7,389	13,330	2011	13,029	15,909	28,938
1998	6,151	8,197	14,348	2012	13,489	16,343	29,832
				2013	13,850	16,909	30,759

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2013, Reported through 12/31/2014

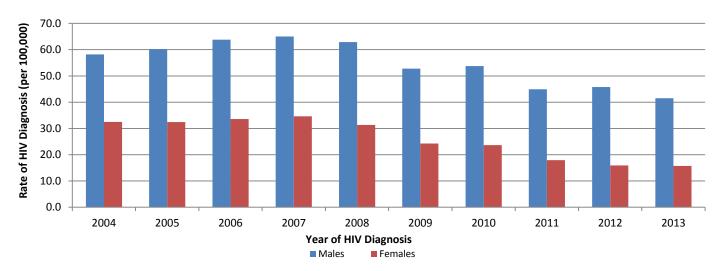
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2013, as Reported through 12/31/2014



YEAR OF	Adult/Adolese	cent Reported H	IV Diagnoses	YEAR OF	Adult/Adoles	cent Reported HI	V Diagnoses
HIV DIAGNOSIS	No.	% Male	% Female	HIV DIAGNOSIS	No.	% Male	% Female
<1985	349	87.4%	12.6%	1999	1,791	67.3%	32.7%
1985	687	85.2%	14.8%	2000	1,718	63.1%	36.9%
1986	910	82.4%	17.6%	2001	1,846	63.4%	36.6%
1987	1,232	81.3%	18.8%	2002	2,099	60.6%	39.4%
1988	1,661	78.6%	21.4%	2003	1,965	63.6%	36.4%
1989	2,138	76.9%	23.1%	2004	2,025	61.7%	38.3%
1990	2,205	75.5%	24.5%	2005	2,092	62.6%	37.4%
1991	2,563	73.7%	26.3%	2006	2,213	63.2%	36.8%
1992	2,430	72.4%	27.6%	2007	2,281	63.1%	36.9%
1993	2,172	71.6%	28.4%	2008	2,165	64.7%	35.3%
1994	2,004	70.7%	29.3%	2009	1,786	66.2%	33.8%
1995	2,007	69.1%	30.9%	2010	1,837	67.6%	32.4%
1996	1,857	69.0%	31.0%	2011	1,503	69.7%	30.3%
1997	1,890	64.7%	35.3%	2012	1,488	72.6%	27.4%
1998	1,853	66.4%	33.6%	2013	1,395	71.0%	29.0%
				TOTAL	54,162	68.9%	31.1%

Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2003-2013, Reported through 12/31/2014

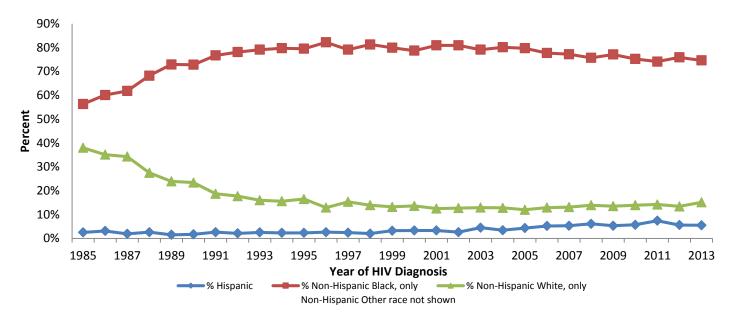
Rate by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2004 through 2013, as Reported through 12/31/2014



		Adult/Ado	lescent Reported HIV Diagno	oses
YEAR OF HIV	Total No. of HIV		Sex at Birth	
DIAGNOSIS	Diagnoses		Male	Female
		Population	2,142,792	2,382,658
2004	2,025	Cases	1,249	776
		Rate	58.3	32.6
		Population	2,167,912	2,404,174
2005	2,092	Cases	1,310	782
		Rate	60.4	32.5
		Population	2,188,433	2,419,890
2006	2,213	Cases	1,399	814
		Rate	63.9	33.7
		Population	2,204,771	2,430,739
2007	2,281	Cases	1,439	842
		Rate	65.3	34.6
	2,165	Population	2,219,919	2,442,191
2008		Cases	1,401	764
		Rate	63.1	31.3
		Population	2,238,829	2,460,976
2009	1,786	Cases	1,182	604
		Rate	52.8	24.5
		Population	2,303,746	2,512,469
2010	1,837	Cases	1,242	595
		Rate	53.9	23.7
		Population	2,331,513	2,537,457
2011	1,503	Cases	1,048	455
		Rate	44.9	17.9
		Population	2,360,279	2,563,656
2012	1,488	Cases	1,080	408
		Rate	45.8	15.9
		Population	2,382,313	2,581,274
2013	1,395	Cases	990	405
		Rate	41.6	15.7
	•	·		

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2013, Reported through 12/31/2014

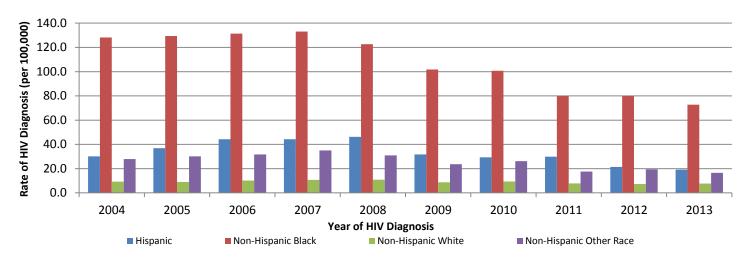
Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2013, as Reported through 12/31/2014



YEAR OF HIV	Adult/Adolescent Reported HIV Diagnoses								
DIAGNOSIS	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race				
<1985	349	2.0%	56.4%	40.1%	1.4%				
1985	687	2.5%	56.3%	38.0%	3.2%				
1986	910	3.1%	60.1%	35.1%	1.8%				
1987	1,232	1.9%	61.8%	34.3%	2.0%				
1988	1,661	2.6%	68.2%	27.5%	1.7%				
1989	2,138	1.5%	72.9%	23.9%	1.6%				
1990	2,205	1.7%	72.8%	23.4%	2.0%				
1991	2,563	2.6%	76.7%	18.7%	2.0%				
1992	2,430	2.1%	78.1%	17.7%	2.1%				
1993	2,172	2.5%	79.1%	16.0%	2.3%				
1994	2,004	2.3%	79.7%	15.6%	2.4%				
1995	2,007	2.3%	79.5%	16.5%	1.7%				
1996	1,857	2.6%	82.2%	12.9%	2.3%				
1997	1,890	2.4%	79.1%	15.3%	3.2%				
1998	1,853	2.0%	81.3%	13.9%	2.8%				
1999	1,791	3.2%	79.9%	13.2%	3.7%				
2000	1,718	3.3%	78.7%	13.6%	4.4%				
2001	1,846	3.3%	80.9%	12.5%	3.4%				
2002	2,099	2.6%	80.9%	12.7%	3.7%				
2003	1,965	4.5%	79.1%	12.9%	3.4%				
2004	2,025	3.4%	80.1%	12.8%	3.7%				
2005	2,092	4.3%	79.7%	12.0%	4.0%				
2006	2,213	5.2%	77.7%	12.9%	4.1%				
2007	2,281	5.3%	77.2%	13.1%	4.5%				
2008	2,165	6.1%	75.7%	13.9%	4.3%				
2009	1,786	5.3%	77.1%	13.5%	4.1%				
2010	1,837	5.7%	75.2%	13.9%	5.2%				
2011	1,503	7.4%	74.1%	14.2%	4.3%				
2012	1,488	5.6%	75.9%	13.4%	5.0%				
2013	1,395	5.5%	74.6%	15.1%	4.7%				
TOTAL	54,162	3.5%	76.6%	16.7%	3.2%				

Figure 4A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2003-2013, Reported through 12/31/2014

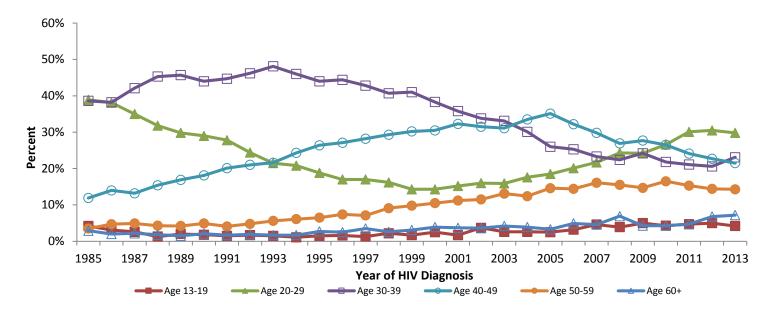
Rate of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2004 through 2013, as Reported through 12/31/2014.



	T	Adult/Adolescent Reported HIV Diagnoses Race/Ethnicity							
YEAR OF HIV DIAGNOSIS	Total No. of HIV Diagnosis		Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race			
		Population	228,529	1,265,311	2,796,522	268,357			
2004	2,025	Cases	69	1,622	259	75			
		Rate	30.1	128.2	9.3	27.9			
		Population	243,965	1,288,345	2,794,617	277,726			
2005	2005 2,092	Cases	90	1,667	251	84			
		Rate	36.9	129.4	9.0	30.1			
		Population	259,717	1,309,033	2,785,642	285,733			
2006	2,213	Cases	115	1,720	285	91			
		Rate	44.3	131.4	10.2	31.8			
		Population	273,408	1,323,746	2,775,780	293,495			
2007	2,281	Cases	121	1,761	299	103			
		Rate	44.2	131.4	10.8	35.0			
	2,165	Population	285,931	1,336,116	2,769,180	301,040			
2008		Cases	132	1,639	301	93			
		Rate	46.2	122.7	10.9	30.9			
		Population	298,277	1,353,474	2,767,918	309,931			
2009	1,786	Cases	95	1,377	241	73			
		Rate	31.7	101.7	8.7	23.6			
		Population	357,468	1,371,064	2,723,736	363,947			
2010	1,837	Cases	105	1,381	255	10			
		Rate	29.3	100.8	9.4	26.2			
		Population	371,383	1,393,686	2,737,345	366,556			
2011	1,503	Cases	111	1,114	213	65			
		Rate	29.9	79.9	7.8	17.6			
		Population	387,644	1,410,623	2,743,271	382,397			
2012	1,488	Cases	83	1,129	199	74			
		Rate	21.5	80.1	7.3	19.5			
		Population	400,635	1,429,549	2,738,027	395,374			
2013	1,395	Cases	77	1,041	211	66			
		Rate	19.2	72.8	7.7	16.6			

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2013, Reported through 12/31/2014

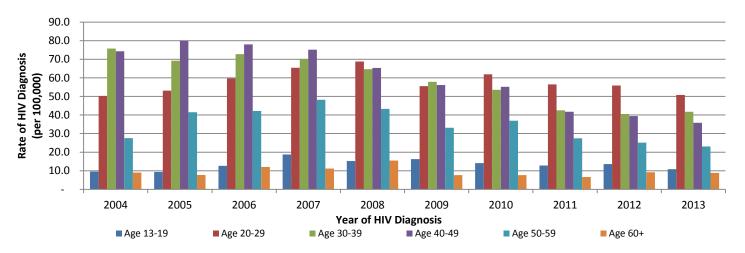
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2013, as Reported through 12/31/2014



YEAR OF			Adult/Adoles	scent Reported	HIV Diagnoses		
HIV DIAGNOSIS	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	349	6.9%	40.4%	31.2%	15.2%	5.2%	1.1%
1985	687	4.2%	38.9%	38.6%	11.9%	3.5%	2.9%
1986	910	3.1%	38.0%	38.2%	14.0%	4.7%	2.0%
1987	1,232	2.6%	35.0%	42.1%	13.2%	4.9%	2.2%
1988	1,661	1.3%	31.8%	45.3%	15.4%	4.3%	1.8%
1989	2,138	2.0%	29.8%	45.7%	16.9%	4.2%	1.5%
1990	2,205	1.8%	29.1%	44.0%	18.1%	4.9%	2.1%
1991	2,563	1.5%	27.8%	44.7%	20.1%	4.1%	1.7%
1992	2,430	1.7%	24.4%	46.2%	21.0%	4.8%	1.9%
1993	2,172	1.5%	21.5%	48.1%	21.6%	5.6%	1.7%
1994	2,004	1.1%	20.8%	46.0%	24.3%	6.1%	1.7%
1995	2,007	1.5%	18.8%	44.0%	26.4%	6.5%	2.7%
1996	1,857	1.6%	17.0%	44.4%	27.1%	7.4%	2.5%
1997	1,890	1.3%	17.0%	42.8%	28.2%	7.1%	3.5%
1998	1,853	2.2%	16.2%	40.7%	29.2%	9.1%	2.6%
1999	1,791	1.7%	14.3%	40.9%	30.2%	9.8%	3.1%
2000	1,718	2.5%	14.3%	38.4%	30.4%	10.5%	3.9%
2001	1,846	1.7%	15.2%	35.9%	32.3%	11.2%	3.7%
2002	2,099	3.7%	16.0%	33.8%	31.5%	11.5%	3.6%
2003	1,965	2.6%	15.9%	33.1%	31.1%	13.1%	4.2%
2004	2,025	2.6%	17.6%	30.1%	33.5%	12.3%	3.9%
2005	2,092	2.6%	18.6%	25.9%	35.1%	14.5%	3.3%
2006	2,213	3.2%	20.1%	25.3%	32.2%	14.3%	4.9%
2007	2,281	4.6%	21.7%	23.4%	29.7%	16.0%	4.6%
2008	2,165	3.9%	24.3%	22.4%	26.9%	15.5%	6.9%
2009	1,786	5.0%	24.3%	24.2%	27.6%	14.6%	4.3%
2010	1,837	4.3%	26.7%	21.8%	26.6%	16.4%	4.2%
2011	1,503	4.7%	30.1%	21.1%	24.1%	15.3%	4.7%
2012	1,488	5.0%	30.5%	20.6%	22.7%	14.4%	6.8%
2013	1,395	4.2%	29.7%	23.2%	21.5%	14.3%	7.2%
TOTAL	54,162	2.7%	22.9%	35.8%	25.5%	9.8%	3.4%

Figure 5A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2004-2013, Reported through 12/31/2014

Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2004 through 2013, as Reported through 12/31/2014

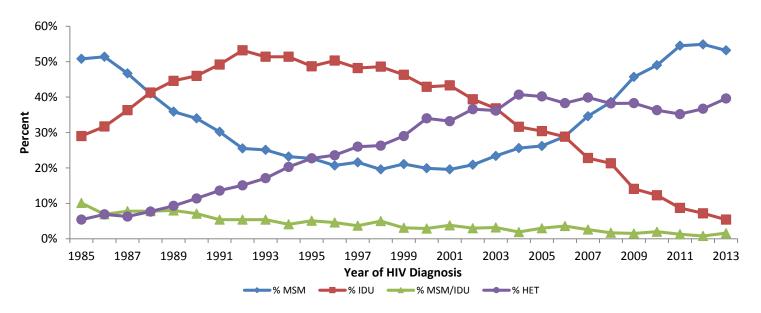


		Adult/Adolescent Reported HIV Diagnoses							
YEAR OF	Total No.			Ą	ge at HIV Diagno	osis			
HIV DIAGNOSIS	of HIV Diagnosis		Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+	
		Population	550,608	707,399	803,292	911,397	911,397	873,427	
2004	2,025	Cases	53	356	610	678	249	79	
		Rate	9.6	50.4	75.9	74.4	27.3	9.0	
		Population	557,755	726,703	782,949	914,789	733,711	888,745	
2005	2,092	Cases	54	389	542	734	303	69	
		Rate	9.8	53.5	69.2	80.3	41.3	7.8	
		Population	559,737	743,598	768,314	912,205	754,441	901,830	
2006	2,213	Cases	71	445	560	713	316	108	
		Rate	12.7	59.8	72.9	78.1	41.9	12.0	
		Population	558,452	754,712	756,083	902,196	760,351	934,634	
2007	2,281	Cases	105	495	534	677	365	105	
		Rate	18.8	65.6	70.6	75.1	48.0	11.2	
		Population	553,855	763,450	748,586	889,690	773,153	963,533	
2008	2,165	Cases	84	526	485	582	336	149	
		Rate	15.2	68.9	64.8	65.5	43.4	15.5	
		Population	547,568	775,650	744,736	877,993	789,380	994,273	
2009	1,786	Cases	89	434	432	493	261	77	
		Rate	16.3	56.0	58.0	56.1	33.0	7.7	
		Population	559,289	787,246	745,903	879,748	818,608	1,025,421	
2010	1,837	Cases	79	490	400	489	301	77	
		Rate	14.1	62.3	53.7	55.5	36.8	7.5	
		Population	549,363	800,985	746,128	868,133	838,152	1,066,209	
2011	1,503	Cases	71	452	317	362	230	71	
		Rate	12.9	56.5	42.5	41.7	27.4	6.6	
		Population	547,321	811,949	759,067	856,920	853,272	1,098,406	
2012	1,488	Cases	74	454	307	338	214	101	
		Rate	13.6	55.9	40.5	39.4	25.1	9.2	
2013	1,395	Population	539,781	817,635	770,888	836,318	863,937	1,135,027	

Cases	59	414	324	300	199	100
Rate	10.9	50.7	42.0	35.9	23.1	8.8

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2013, Reported through 12/31/2014

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2013, as Reported through 12/31/2014



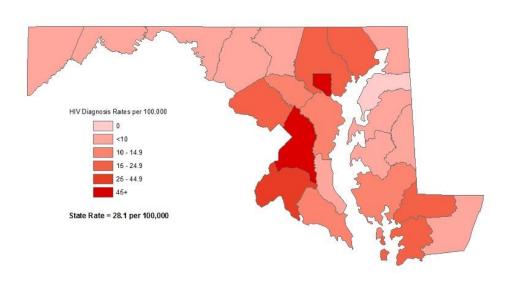
	Adult/Adolescent Reported HIV Diagnoses											
YEAR OF HIV				With Expos	ure Category							
DIAGNOSIS	No.	No.	% MSM	% IDU	% MSM/IDU	% HET	% Other Exposure					
<1985	349	328	59.1%	24.7%	7.0%	5.2%	4.0%					
1985	687	651	50.8%	29.0%	10.1%	5.4%	4.6%					
1986	910	879	51.4%	31.7%	6.9%	6.9%	3.0%					
1987	1,232	1,183	46.7%	36.3%	7.8%	6.3%	3.0%					
1988	1,661	1,591	41.0%	41.3%	7.8%	7.7%	2.1%					
1989	2,138	2,049	35.9%	44.6%	8.0%	9.3%	2.2%					
1990	2,205	2,101	34.0%	45.9%	7.1%	11.5%	1.5%					
1991	2,563	2,413	30.2%	49.2%	5.4%	13.6%	1.5%					
1992	2,430	2,264	25.5%	53.2%	5.4%	15.1%	0.8%					
1993	2,172	2,050	25.1%	51.4%	5.4%	17.1%	1.0%					
1994	2,004	1,882	23.2%	51.4%	4.1%	20.3%	1.0%					
1995	2,007	1,855	22.7%	48.7%	5.1%	22.7%	0.8%					
1996	1,857	1,697	20.7%	50.3%	4.6%	23.6%	0.8%					
1997	1,890	1,693	21.6%	48.3%	3.7%	26.0%	0.4%					
1998	1,853	1,636	19.6%	48.6%	5.0%	26.3%	0.6%					
1999	1,791	1,558	21.1%	46.3%	3.1%	29.1%	0.4%					
2000	1,718	1,474	19.9%	42.9%	2.8%	34.0%	0.3%					
2001	1,846	1,584	19.6%	43.4%	3.8%	33.2%	0.1%					
2002	2,099	1,757	20.9%	39.4%	3.0%	36.5%	0.2%					
2003	1,965	1,685	23.4%	36.8%	3.2%	36.2%	0.4%					
2004	2,025	1,663	25.6%	31.5%	1.9%	40.8%	0.2%					
2005	2,092	1,592	26.3%	30.3%	3.0%	40.3%	0.1%					
2006	2,213	1,537	28.8%	28.8%	3.6%	38.4%	0.4%					
2007	2,281	1,456	34.8%	22.7%	2.5%	39.8%	0.2%					
2008	2,165	1,273	38.6%	21.3%	1.7%	38.2%	0.2%					
2009	1,786	920	45.7%	14.1%	1.5%	38.4%	0.3%					
2010	1,837	911	48.8%	12.4%	2.0%	36.3%	0.4%					
2011	1,503	781	54.5%	8.7%	1.3%	35.2%	0.3%					

2012	1,488	950	54.9%	7.2%	0.8%	36.7%	0.3%
2013	1,395	953	53.1%	5.5%	1.6%	39.6%	0.3%
TOTAL	54,162	44,366	30.8%	38.6%	4.4%	25.3%	0.9%

Section III - Adult/Adolescent Cases by Jurisdiction

This section discusses trends of adult/adolescent HIV cases by jurisdiction reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2014. This section also displays CD4 results, the percent linked to care, the percent late diagnosis, viral load test results, and the percent of viral load suppressed providing insight into where current prevention and early treatment strategies should be focused.

Maryland Adult/Adolescent HIV Diagnoses, Rates by Jurisdiction, 2013



A few important numbers:

The rate of new HIV diagnoses among adults/adolescents in Maryland is 28.1 per 100,000.

Jurisdictions with the highest rates of new HIV diagnoses among adults/adolescents in Maryland include:

Description
De

• The rate of new AIDS diagnoses among adults/adolescents in Maryland is 19.1 per 100,000.

Jurisdictions with the highest rates of new AIDS diagnoses among adult/adolescents in Maryland include:

Baltimore City: 59.1 per 100,000
 Prince George's: 33.9 per 100,000
 Dorchester: 18.1 per 100,000

Table 1 – Adult/Adolescent HIV Diagnoses during 2013, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2014

					Adult/	Adolescent I	Reported HIV	Diagnoses			
JURISDICTION OF RESIDENCE	Population				No.		No. Late	% Late	First	CD4 Test I	Result
AT HIV DIAGNOSIS	Age 13+	No.	% of Total	Rate	Linked to Care	% Linked to Care	HIV Diagnosis	HIV Diagnosis	No. with Test	% with Test	Median Count
Allegany	64,412	5	0.4%	7.8	5	100.0%	***	***	5	100.0%	66
Anne Arundel	464,062	54	3.9%	11.6	43	79.6%	18	33.3%	45	83.3%	300
Baltimore City	523,113	385	27.6%	73.6	296	76.9%	108	28.1%	308	80.0%	346
Baltimore	694,901	138	9.9%	19.9	118	85.5%	41	29.7%	118	85.5%	343
Calvert	75,485	2	0.1%	2.6	***	***	***	***	***	***	***
Caroline	27,080	1	0.1%	3.7	***	***	***	***	***	***	***
Carroll	141,768	2	0.1%	1.4	***	***	***	***	***	***	***
Cecil	84,917	8	0.6%	9.4	8	100.0%	***	***	5	62.5%	345
Charles	126,399	33	2.4%	26.1	26	78.8%	10	30.3%	25	75.8%	501
Dorchester	27,623	4	0.3%	14.5	***	***	***	***	***	***	***
Frederick	200,514	15	1.1%	7.5	9	60.0%	8	53.3%	12	80.0%	228
Garrett	25,790	1	0.1%	3.9	***	***	***	***	***	***	***
Harford	208,971	32	2.3%	15.3	25	78.1%	12	37.5%	30	93.8%	292
Howard	252,141	32	2.3%	12.7	28	87.5%	13	40.6%	28	87.5%	269
Kent	17,527	0	0.0%	0.0	0	0.0%	0	0.0%	0	0.0%	
Montgomery	843,834	196	14.1%	23.2	158	80.6%	73	37.2%	156	79.6%	288
Prince George's	742,415	417	29.9%	56.2	330	79.1%	128	30.7%	338	81.1%	356
Queen Anne's	40,861	2	0.1%	4.9	***	***	***	***	***	***	***
Saint Mary's	89,811	10	0.7%	11.1	6	60.0%	***	***	5	50.0%	535
Somerset	23,048	5	0.4%	21.7	5	100.0%	***	***	5	100.0%	243
Talbot	32,904	3	0.2%	9.1	***	***	***	***	***	***	***
Washington	125,996	8	0.6%	6.3	7	87.5%	***	***	6	75.0%	258
Wicomico	84,872	14	1.0%	16.5	14	100.0%	9	64.3%	14	100.0%	202
Worcester	45,144	2	0.1%	4.4	***	***	***	***	***	***	***
Corrections		26	1.9%		21	80.8%	***	***	23	88.5%	431
TOTAL	4,963,586	1,395	100.0%	28.1	1,115	79.9%	445	31.9%	1,139	81.6%	335

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2013, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2014

			Adult/Adole	escent Reported	AIDS Diagnoses	
JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	Population Age 13+	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	64,412	5	0.5%	7.8	2.0	80.0%
Anne Arundel	464,062	36	3.8%	7.8	3.8	47.2%
Baltimore City	523,113	309	32.6%	59.1	4.9	37.2%
Baltimore	694,901	87	9.2%	12.5	4.7	48.3%
Calvert	75,485	2	0.2%	2.6	***	***
Caroline	27,080	1	0.1%	3.7	***	***
Carroll	141,768	1	0.1%	0.7	***	***
Cecil	84,917	5	0.5%	5.9	0.2	100.0%
Charles	126,399	14	1.5%	11.1	3.8	64.3%
Dorchester	27,623	5	0.5%	18.1	9.0	40.0%
Frederick	200,514	13	1.4%	6.5	2.6	69.2%
Garrett	25,790	0	0.0%	0.0		0.0%
Harford	208,971	17	1.8%	8.1	2.0	82.4%
Howard	252,141	22	2.3%	8.7	2.2	63.6%
Kent	17,527	0	0.0%	0.0		0.0%
Montgomery	843,834	137	14.5%	16.2	3.4	48.9%
Prince George's	742,415	252	26.6%	33.9	3.5	56.3%
Queen Anne's	40,861	0	0.0%	0.0		0.0%
Saint Mary's	89,811	5	0.5%	5.6	3.7	40.0%
Somerset	23,048	3	0.3%	13.0	***	***
Talbot	32,904	1	0.1%	3.0	***	***
Washington	125,996	8	0.8%	6.3	6.9	37.5%
Wicomico	84,872	11	1.2%	13.0	1.5	90.9%
Worcester	45,144	0	0.0%	0.0		0.0%
Corrections		13	1.4%		4.0	30.8%
TOTAL	4,963,586	947	100.0%	19.1	4.0	49.1%

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2013, by Jurisdiction, Reported through 12/31/2014

JURISDICTION OF RESIDENCE	Population		Adolescen ses witho			Adolescen Cases with		Adult/A	Adolescen Ca	t Total Liv ses	ring HIV
AT DIAGNOSIS	Age 13+	No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	64,412	39	0.3%	60.5	32	0.2%	49.7	71	0.2%	110.2	907
Anne Arundel	464,062	472	3.5%	101.7	619	3.7%	133.4	1,091	3.6%	235.1	425
Baltimore City	523,113	5,482	40.3%	1,048.0	6,952	41.6%	1,329.0	12,434	41.0%	2,376.9	42
Baltimore	694,901	1,151	8.5%	165.6	1,436	8.6%	206.6	2,587	8.5%	372.3	268
Calvert	75,485	49	0.4%	64.9	55	0.3%	72.9	104	0.3%	137.8	725
Caroline	27,080	26	0.2%	96.0	32	0.2%	118.2	58	0.2%	214.2	466
Carroll	141,768	53	0.4%	37.4	62	0.4%	43.7	115	0.4%	81.1	1,232
Cecil	84,917	47	0.3%	55.3	59	0.4%	69.5	106	0.3%	124.8	801
Charles	126,399	190	1.4%	150.3	163	1.0%	129.0	353	1.2%	279.3	358
Dorchester	27,623	36	0.3%	130.3	76	0.5%	275.1	112	0.4%	405.5	246
Frederick	200,514	151	1.1%	75.3	154	0.9%	76.8	305	1.0%	152.1	657
Garrett	25,790	4	0.0%	15.5	4	0.0%	15.5	8	0.0%	31.0	3,223
Harford	208,971	175	1.3%	83.7	222	1.3%	106.2	397	1.3%	190.0	526
Howard	252,141	242	1.8%	96.0	255	1.5%	101.1	497	1.6%	197.1	507
Kent	17,527	14	0.1%	79.9	19	0.1%	108.4	33	0.1%	188.3	531
Montgomery	843,834	1,576	11.6%	186.8	1,886	11.3%	223.5	3,462	11.4%	410.3	243
Prince George's	742,415	3,007	22.1%	405.0	3,374	20.2%	454.5	6,381	21.1%	859.5	116
Queen Anne's	40,861	18	0.1%	44.1	31	0.2%	75.9	49	0.2%	119.9	833
Saint Mary's	89,811	59	0.4%	65.7	64	0.4%	71.3	123	0.4%	137.0	730
Somerset	23,048	19	0.1%	82.4	30	0.2%	130.2	49	0.2%	212.6	470
Talbot	32,904	23	0.2%	69.9	32	0.2%	97.3	55	0.2%	167.2	598
Washington	125,996	163	1.2%	129.4	134	0.8%	106.4	297	1.0%	235.7	424
Wicomico	84,872	91	0.7%	107.2	109	0.7%	128.4	200	0.7%	235.6	424
Worcester	45,144	34	0.2%	75.3	47	0.3%	104.1	81	0.3%	179.4	557
Corrections		493	3.6%		845	5.1%		1,338	4.4%		
TOTAL	4,963,586	13,614	100.0%	274.3	16,692	100.0%	336.3	30,306	100.0%	610.6	163

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis. **Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2013.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2013, Reported through 12/31/2014

			Adul	t/Adolescent	Total Living F	IIV Cases		
JURISDICTION OF RESIDENCE AT				Rec	ent CD4 Test	Result		
DIAGNOSIS	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	71	45	63.4%	666	11.1%	6.7%	13.3%	68.9%
Anne Arundel	1,091	641	58.8%	527	12.6%	14.7%	20.0%	52.7%
Baltimore City	12,434	7,792	62.7%	510	13.6%	16.2%	18.7%	51.5%
Baltimore	2,587	1,599	61.8%	528	12.3%	14.7%	20.3%	52.8%
Calvert	104	65	62.5%	536	9.2%	13.8%	16.9%	60.0%
Caroline	58	33	56.9%	576	9.1%	12.1%	9.1%	69.7%
Carroll	115	50	43.5%	537	14.0%	6.0%	24.0%	56.0%
Cecil	106	50	47.2%	528	6.0%	22.0%	20.0%	52.0%
Charles	353	207	58.6%	587	11.1%	10.1%	13.5%	65.2%
Dorchester	112	81	72.3%	509	7.4%	17.3%	24.7%	50.6%
Frederick	305	168	55.1%	514	10.1%	10.7%	26.2%	53.0%
Garrett	8	***	***	***	***	***	***	***
Harford	397	235	59.2%	536	11.9%	17.0%	18.7%	52.3%
Howard	497	293	59.0%	587	12.3%	12.3%	16.0%	59.4%
Kent	33	***	***	***	***	***	***	***
Montgomery	3,462	1,705	49.2%	531	11.6%	14.8%	19.7%	53.8%
Prince George's	6,381	3,453	54.1%	505	14.4%	15.3%	19.5%	50.8%
Queen Anne's	49	32	65.3%	506	3.1%	28.1%	18.8%	50.0%
Saint Mary's	123	81	65.9%	542	11.1%	16.0%	17.3%	55.6%
Somerset	49	36	73.5%	564	13.9%	13.9%	11.1%	61.1%
Talbot	55	38	69.1%	438	13.2%	23.7%	18.4%	44.7%
Washington	297	151	50.8%	568	8.6%	12.6%	19.9%	58.9%
Wicomico	200	119	59.5%	503	17.6%	17.6%	14.3%	50.4%
Worcester	81	51	63.0%	541	17.6%	11.8%	13.7%	56.9%
Corrections	1,338	827	61.8%	461	16.2%	18.3%	20.1%	45.5%
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis. **Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2013, by Jurisdiction, Reported through 12/31/2014

		Adult/A	dolescent Total L	iving HIV Cases	
JURISDICTION OF RESIDENCE AT			Recent Vira	al Load Test Result	
DIAGNOSIS	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	71	45	63.4%	80.0%	39,868
Anne Arundel	1,091	567	52.0%	70.5%	11,386
Baltimore City	12,434	6,446	51.8%	67.0%	9,830
Baltimore	2,587	1,402	54.2%	71.6%	10,215
Calvert	104	66	63.5%	78.8%	20,787
Caroline	58	36	62.1%	75.0%	4,110
Carroll	115	45	39.1%	82.2%	21,215
Cecil	106	49	46.2%	79.6%	4,930
Charles	353	209	59.2%	76.1%	8,647
Dorchester	112	74	66.1%	83.8%	46,300
Frederick	305	164	53.8%	80.5%	5,825
Garrett	8	***	***	***	***
Harford	397	216	54.4%	73.1%	8,074
Howard	497	257	51.7%	75.9%	16,518
Kent	33	***	***	***	***
Montgomery	3,462	1,736	50.1%	81.7%	7,048
Prince George's	6,381	3,452	54.1%	74.4%	12,080
Queen Anne's	49	32	65.3%	90.6%	2,700
Saint Mary's	123	77	62.6%	72.7%	1,710
Somerset	49	36	73.5%	72.2%	8,590
Talbot	55	36	65.5%	77.8%	24,750
Washington	297	144	48.5%	86.8%	29,027
Wicomico	200	117	58.5%	76.1%	6,635
Worcester	81	51	63.0%	82.4%	1,600
Corrections	1,338	598	44.7%	60.5%	15,503
TOTAL	30,306	15,877	52.4%	71.7%	10,039

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis. **Recent Viral Load Test Result:** The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

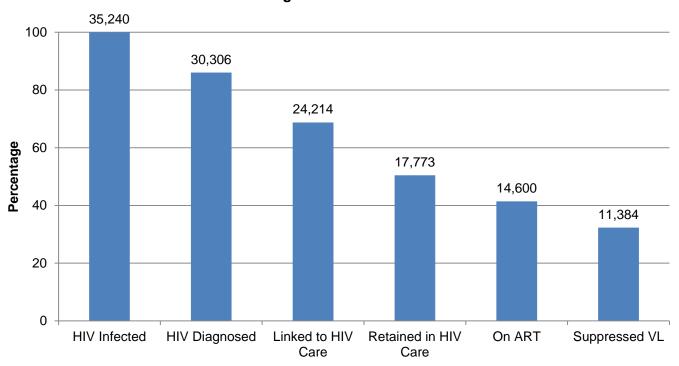
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Figure 7 – Estimated Adult/Adolescent 2013 HIV Continuum of Care, Reported through 12/31/2014

In their 2011 article in Clinical Infectious Diseases, Gardner et al. utilize a continuum of care "cascade" to illustrate national estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The Maryland Engagement in HIV Care Cascade (below) uses the national estimate of the number of undiagnosed persons (14%) to generate an estimated total number of HIV infected persons in Maryland, and then uses local data to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.

Estimated Number and Percentage of HIV Infected Adults Engaged in Selected Stages of the Continuum of Care



Engagement in HIV Care

Continuum of Care Stage	Number	Percentage
HIV Infected	35,240	100.0%
HIV Diagnosed	30,306	86.0%
Linked to HIV Care	24,214	68.7%
Retained in HIV Care	17,773	50.4%
On ART	14,600	41.4%
Suppressed VL	11,384	32.3%

HIV Infected: HIV Diagnosed divided by one minus the national estimate of undiagnosed HIV infections (14%).

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result reported in the 12 months prior to December 31st of the specified year **On ART:** Estimated number of HIV Diagnosed receiving antiretroviral therapy (ART) during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Section IV - Cases by Age

This section discusses trends of adult/adolescent cases by age reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2014. This section also displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into age groups where current prevention and early treatment strategies should be focused.

A few important numbers:

- Age group with the highest rates of new HIV diagnoses in Maryland:
 - o 20-29 year olds: 50.8 per 100,000
- Age groups with the highest and lowest percent of late HIV diagnoses in Maryland:
 - 60+ year olds: 44.0%20-29 year olds: 20.7%
- Age groups with the highest and lowest percent linked to care in Maryland:
 - 13-19 year olds: 86.2%20-29 year olds: 77.8%
- Age group with the highest rates of new AIDS diagnoses in Maryland:
 - o 40-49 year olds: 29.1 per 100,000
- Age group with the highest rates of living HIV cases (with or without AIDS) in Maryland:
 - o 50-59 year olds: 1,083.9 per 100,000, 1 in 92 individuals

Table 6 – HIV Diagnoses during 2013, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2014

						Reporte	ed HIV Diagnos	ses			
AGE AT					No.	%			First	First CD4 Test Re	
HIV DIAGNOSIS	Population	No.	% of Total	Rate	Linked to Care	Linked to Care	No. Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
<5 (Pediatric)	367,210	***	***	***	***	***	***	***	***	***	***
5-12 (Pediatric)	598,018	***	***	***	***	***	***	***	***	***	***
13-19	539,781	58	4.2%	10.7	50	86.2%	15	25.9%	51	87.9%	377
20-29	817,635	415	29.7%	50.8	323	77.8%	86	20.7%	330	79.5%	383
30-39	770,888	323	23.1%	41.9	266	82.4%	106	32.8%	271	83.9%	330
40-49	836,318	300	21.5%	35.9	240	80.0%	115	38.3%	245	81.7%	282
50-59	863,937	199	14.3%	23.0	155	77.9%	79	39.7%	164	82.4%	293
60+	1,135,027	100	7.2%	8.8	81	81.0%	44	44.0%	78	78.0%	303
TOTAL	5,928,814	1,396	100.0%	23.5	1,115	79.9%	445	31.9%	1,140	81.7%	335

^{***} Data withheld due to low population counts and/or case counts

Table 7 – AIDS Diagnoses during 2013, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2014

			F	Reported AID	S Diagnoses	
AGE AT AIDS DIAGNOSIS	Population	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	367,210	0	0.0%	0.0		0.0%
5-12 (Pediatric)	598,018	0	0.0%	0.0		0.0%
13-19	539,781	23	2.4%	4.3	3.0	78.3%
20-29	817,635	176	18.4%	21.5	2.9	54.0%
30-39	770,888	215	22.5%	27.9	3.5	49.3%
40-49	836,318	243	25.4%	29.1	4.6	46.5%
50-59	863,937	204	21.3%	23.6	5.2	42.6%
60+	1,135,027	95	9.9%	8.4	4.8	48.4%
TOTAL	5,928,814	956	100.0%	16.1	4.1	48.6%

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Table 8 – HIV Cases Alive on 12/31/2013, by Age on 12/31/2013, Reported through 12/31/2014

AGE ON	Population	Living HIV Cases without AIDS			Living	HIV Case AIDS	s with		Total Livi	ng HIV Cases	S
12/31/2013	- opaiation	No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
<5	367,210	8	0.1%	2.2	2	0.0%	0.5	10	0.0%	2.7	36,721
5-12	598,018	51	0.4%	8.5	11	0.1%	1.8	62	0.2%	10.4	9,645
13-19	539,781	170	1.2%	31.5	90	0.5%	16.7	260	0.8%	48.2	2,076
20-29	817,635	2,186	15.8%	267.4	948	5.6%	115.9	3,134	10.2%	383.3	260
30-39	770,888	2,888	20.9%	374.6	2,219	13.1%	287.8	5,107	16.6%	662.5	150
40-49	836,318	3,705	26.8%	443.0	5,221	30.9%	624.3	8,926	29.0%	1,067.3	93
50-59	863,937	3,447	24.9%	399.0	5,917	35.0%	684.9	9,364	30.4%	1,083.9	92
60+	1,135,027	1,395	10.1%	122.9	2,501	14.8%	220.3	3,896	12.7%	343.3	291
TOTAL	5,928,814	13,850	100.0%	233.6	16,909	100.0%	285.2	30,759	100.0%	518.8	192

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2013.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2013, by Age on 12/31/2013, Reported through 12/31/2014

			Adult/Ad	olescent Total	Living HIV Ca	ases					
AGE ON		Recent CD4 Test Results									
12/31/2013	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+			
13-19	113	71	62.8%	500	5.6%	25.4%	18.3%	50.7%			
20-29	2,917	1,792	61.4%	516	10.3%	15.8%	21.8%	52.0%			
30-39	5,090	2,930	57.6%	519	13.6%	14.3%	19.7%	52.4%			
40-49	8,926	5,146	57.7%	502	15.0%	15.3%	19.2%	50.4%			
50-59	9,364	5,648	60.3%	525	13.3%	15.9%	17.8%	53.1%			
60+	3,896	2,186	56.1%	518	11.5%	16.9%	19.2%	52.4%			
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%			

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2013, by Age on 12/31/2013, Reported through 12/31/2014

		Adult/Adolescent Total Living HIV Cases											
AGE ON			Recent Viral Load Test Result										
12/31/2013	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed								
13-19	113	84	74.3%	39.3%	8,218								
20-29	2,917	1,672	57.3%	54.2%	13,459								
30-39	5,090	2,690	52.8%	69.1%	13,433								
40-49	8,926	4,671	52.3%	71.4%	10,267								
50-59	9,364	4,901	52.3%	75.9%	8,932								
60+	3,896	1,859	47.7%	82.2%	3,833								
TOTAL	30,306	15,877	52.4%	71.7%	10,039								

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age on [date]: Age group of living cases on the specified date.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section V – Adult/Adolescent Cases by Demographics

This section discusses trends of adult/adolescent HIV cases in Maryland by sex at birth, race/ethnicity, and country of birth. This section displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into demographics where current prevention and early treatment strategies should be focused.

A few important numbers:

HIV:

- 990 Male (at birth) Adult/Adolescent HIV Diagnoses in 2013
- 405 Female (at birth) Adult/Adolescent HIV Diagnoses in 2013
- 77 Hispanic Adult/Adolescent HIV Diagnoses in 2013
- 1,318 Non-Hispanic Adult/Adolescent HIV Diagnoses in 2013
- 1,109 US Born Adult/Adolescent HIV Diagnoses in 2013
- 139 Foreign Born Adult/Adolescent HIV Diagnoses in 2013

AIDS:

- 634 Male (at birth) Adult/Adolescent AIDS Diagnoses in 2013
- 313 Female (at birth) Adult/Adolescent AIDS Diagnoses in 2013
- 63 Hispanic Adult/Adolescent AIDS Diagnoses in 2013
- 884 Non-Hispanic Adult/Adolescent AIDS Diagnoses in 2013
- 781 US Born Adult/Adolescent AIDS Diagnoses in 2013
- 94 Foreign Born Adult/Adolescent AIDS Diagnoses in 2013

Table 11 – Adult/Adolescent HIV Diagnoses during 2013, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2014

					Adult/A	dolescent	Reported HIV	Diagnoses							
SEX AT BIRTH	Population				No.	%	No. of	CD4 Test Result							
	Age 13+*	No.	% of Total	Rate	Linked to Care	Linked to Care	Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count				
Male	2,382,313	990	71.0%	41.6	788	79.6%	304	30.7%	802	81.0%	332				
Female	2,581,274	405	29.0%	15.7	327	80.7%	141	34.8%	337	83.2%	346				
TOTAL	4,963,586	1,395	100.0%	28.1	1,115	79.9%	445	31.9%	1,139	81.6%	335				

					Adult/A	dolescent	Reported HIV	Diagnoses			
RACE/	Population				No.	%	No. of		First	CD4 Test	Result
ETHNICITY	Age 13+*	No.	% of Total	Rate	Linked to Care	Linked to Care	Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
Hispanic	400,635	77	5.5%	19.2	59	76.6%	26	33.8%	65	84.4%	299
Non-Hispanic	4,562,951	1,318	94.5%	28.9	1,056	80.1%	419	31.8%	1,074	81.5%	338
American Indian/Alaska Native, only	12,312	1	0.1%	8.1	***	***	***	***	***	***	***
Asian, only	299,911	16	1.1%	5.3	***	***	***	***	***	***	***
Black, only	1,429,549	1,041	74.6%	72.8	826	79.3%	321	30.8%	839	80.6%	338
Native Hawaiian/ Other Pacific Islander, only	2,448	0	0.0%	0.0	0	0.0%	0	0.0%	0	0.0%	
White only	2,738,027	211	15.1%	7.7	176	83.4%	72	34.1%	177	83.9%	345
Multiracial/ Other	80,704	49	3.5%	60.7	41	83.7%	19	38.8%	44	89.8%	358
TOTAL	4,963,586	1,395	100.0%	28.1	1,115	79.9%	445	31.9%	1,139	81.6%	335

					Adult/A	dolescent	Reported HIV	Diagnoses			
COUNTRY OF	Population				No.	%	No. of		First	CD4 Test	Result
BIRTH	Age 13+**	No.	% of Total	Rate	Linked to Care	Linked to Care	Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
United States	4,087,355	1,109	79.5%	27.1	876	79.0%	335	30.2%	889	80.2%	345
Foreign-born	780,483	139	10.0%	17.8	115	82.7%	60	43.2%	122	87.8%	279
Africa		89	6.4%		73	82.0%	43	48.3%	78	87.6%	256
Asia		7	0.5%		***	***	***	***	***	***	***
Caribbean		13	0.9%		11	84.6%	***	***	11	84.6%	445
Central America		24	1.7%		20	83.3%	11	45.8%	22	91.7%	250
Other		6	0.4%		***	***	***	***	***	***	***
Unknown		147	10.5%		124	84.4%	50	34.0%	128	87.1%	346
TOTAL	4,867,838	1,395	100.0%	28.7	1,115	79.9%	445	31.9%	1,139	81.6%	335

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2013 U.S. Census population estimates

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

^{**} Population data by country of birth are from the 2013 American Community Survey

^{***} Data withheld due to low population and/or case counts

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 12 – Adult/Adolescent AIDS Diagnoses during 2013, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2014

			Adult/Adole	scent Report	ted AIDS Diagnose	es
SEX AT BIRTH	Population Age 13+*	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	2,382,313	634	66.9%	26.6	3.7	51.4%
Female	2,581,274	313	33.1%	12.1	4.6	44.4%
TOTAL	4,963,586	947	100.0%	19.1	4.0	49.1%

			Adult/Adole	scent Report	ed AIDS Diagnose	S
RACE/ETHNICITY	Population Age 13+*	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	400,635	63	6.7%	15.7	3.5	49.2%
Non-Hispanic	4,562,951	884	93.3%	19.4	4.0	49.1%
American Indian/Alaska Native, only	12,312	1	0.1%	8.1	***	***
Asian, only	299,911	9	1.0%	3.0	***	***
Black, only	1,429,549	684	72.2%	47.8	4.1	47.8%
Native Hawaiian/Other Pacific Islander, only	2,448	0	0.0%	0.0	-	0.0%
White only	2,738,027	142	15.0%	5.2	3.7	57.0%
Multiracial/Other	80,704	48	5.1%	59.5	4.6	39.6%
TOTAL	4,963,586	947	100.0%	19.1	4.0	49.1%

			Adult/Adole	scent Report	ed AIDS Diagnose	s
COUNTRY OF BIRTH	Population Age 13+**	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	4,087,355	781	82.5%	19.1	4.4	45.8%
Foreign-born	780,483	94	9.9%	12.0	2.9	61.7%
Africa		62	6.5%		2.8	64.5%
Asia		3	0.3%	1	***	***
Caribbean		6	0.6%	1	***	***
Central America		16	1.7%	1	1.7	62.5%
Other		7	0.7%		6.0	14.3%
Unknown		72	7.6%		1.6	68.1%
TOTAL	4,867,838	947	100.0%	19.5	4.0	49.1%

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2013 U.S. Census population estimates

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

^{**} Population data by country of birth are from the 2013 American Community Survey

^{***} Data withheld due to low population and/or case counts

Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2013 and Reported through 12/31/2014

SEX AT BIRTH	Population		dolescent ses withou	•		dolescent ases with A	•	Adult/Adolescent Total Living HIV Cases				
	Age 13+	No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)	
Male	2,382,313	8,783	64.5%	368.7	10,884	65.2%	456.9	19,667	64.9%	825.5	121	
Female	2,581,274	4,831	35.5%	187.2	5,808	34.8%	225.0	10,639	35.1%	412.2	242	
TOTAL	4,963,586	13,614	100.0%	274.3	16,692	100.0%	336.3	30,306	100.0%	610.6	163	

RACE/	Population		dolescent ses withou	•		dolescent ases with	•	Adult/Adolescent Total Living HIV Cases				
ETHNICITY	Age 13+*	No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)	
Hispanic	400,635	595	4.4%	148.5	882	5.3%	220.2	1,477	4.9%	368.7	271	
Non-Hispanic	4,562,951	13,019	95.6%	285.3	15,810	94.7%	346.5	28,829	95.1%	631.8	158	
American Indian/Alaska Native, only	12,312	19	0.1%	154.3	8	0.0%	65.0	27	0.1%	219.3	455	
Asian, only	299,911	101	0.7%	33.7	62	0.4%	20.7	163	0.5%	54.3	1,839	
Black, only	1,429,549	10,307	75.7%	721.0	12,709	76.1%	889.0	23,016	75.9%	1,610.0	62	
Native Hawaiian/Other Pacific Islander, only	2,448	8	0.1%	326.8	7	0.0%	286.0	15	0.0%	612.8	163	
White only	2,738,027	2,205	16.2%	80.5	2,338	14.0%	85.4	4,543	15.0%	165.9	602	
Multiracial/ Other	80,704	379	2.8%	469.6	686	4.1%	850.0	1,065	3.5%	1,319.6	75	
TOTAL	4,963,586	13,614	100.0%	274.3	16,692	100.0%	336.3	30,306	100.0%	610.6	163	

COUNTRY OF	Population		dolescent ses withou	•		dolescent ases with	_	Adult/Adolescent Total Living HIV Cases				
BIRTH	Age 13+**	No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)	
United States	4,087,355	12,066	88.6%	295.2	14,811	88.7%	362.4	26,877	88.7%	657.6	152	
Foreign-born	780,483	831	6.1%	106.5	1,537	9.2%	196.9	2,368	7.8%	303.4	329	
Africa		474	3.5%		937	5.6%		1,411	4.7%			
Asia		42	0.3%		54	0.3%	-	96	0.3%			
Caribbean		72	0.5%		130	0.8%	-	202	0.7%			
Central America		119	0.9%		263	1.6%		382	1.3%			
Other		124	0.9%		153	0.9%		277	0.9%			
Unknown		717	5.3%		344	2.1%		1,061	3.5%			
TOTAL	4,867,838	13,614	100.0%	279.7	16,692	100.0%	342.9	30,306	100.0%	622.6	160	

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2013 U.S. Census population estimates

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2013.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

^{**} Population data by country of birth are from the 2013 American Community Survey

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2013 and Reported through 12/31/2014

	Adult/Adolescent Total Living HIV Cases											
SEX AT BIRTH				Recent CI	04 Test Res	sult						
SEX AT BIRTH	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+				
Male	19,667	11,219	57.0%	498	13.6%	16.6%	20.0%	49.8%				
Female	10,639	6,554	61.6%	546	12.8%	13.9%	17.6%	55.7%				
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%				

			Adult/Adoles	cent Total Li	ving HIV C	ases		
RACE/ETHNICITY				Recent CI	04 Test Res	sult		
RACE/ETHNIOTT	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	1,477	808	54.7%	470	14.9%	17.1%	21.5%	46.5%
Non-Hispanic	28,829	16,965	58.8%	518	13.2%	15.5%	19.0%	52.3%
American Indian/Alaska Native, only	27	11	40.7%	762	0.0%	9.1%	18.2%	72.7%
Asian, only	163	87	53.4%	490	6.9%	17.2%	28.7%	47.1%
Black, only	23,016	13,668	59.4%	511	13.8%	15.8%	19.0%	51.4%
Native Hawaiian/Other Pacific Islander, only	15	5	33.3%	714	0.0%	0.0%	0.0%	100.0%
White only	4,543	2,401	52.9%	564	9.6%	13.6%	18.5%	58.4%
Multiracial/Other	1,065	793	74.5%	490	14.8%	17.5%	19.2%	48.5%
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%

	Adult/Adolescent Total Living HIV Cases								
COUNTRY OF BIRTH	No.	Recent CD4 Test Result							
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+	
United States	26,877	15,836	58.9%	518	13.4%	15.5%	18.9%	52.2%	
Foreign-born	2,368	1,267	53.5%	489	12.6%	17.0%	21.9%	48.4%	
Africa	1,411	790	56.0%	473	12.9%	19.0%	21.8%	46.3%	
Asia	96	51	53.1%	504	9.8%	13.7%	23.5%	52.9%	
Caribbean	202	107	53.0%	570	7.5%	13.1%	15.9%	63.6%	
Central America	382	208	54.5%	431	18.3%	16.3%	26.0%	39.4%	
Other	277	111	40.1%	590	6.3%	9.9%	20.7%	63.1%	
Unknown	1,061	670	63.1%	533	11.9%	16.0%	17.5%	54.6%	
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%	

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year. **Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2013 and Reported through 12/31/2014

SEX AT BIRTH	Adult/Adolescent Total Living HIV Cases						
	No.	Recent Viral Load Test Result					
		No. with Test	% with Test	% Suppressed	Median Unsuppressed		
Male	19,667	9,926	50.5%	72.4%	11,011		
Female	10,639	5,951	55.9%	70.6%	9,121		
TOTAL	30,306	15,877	52.4%	71.7%	10,039		

	Adult/Adolescent Total Living HIV Cases							
RACE/ETHNICITY	No.	Recent Viral Load Test Result						
		No. with Test	% with Test	% Suppressed	Median Unsuppressed			
Hispanic	1,477	758	51.3%	76.9%	12,055			
Non-Hispanic	28,829	15,119	52.4%	71.4%	10,000			
American Indian/Alaska Native, only	27	12	44.4%	83.3%	59,315			
Asian, only	163	85	52.1%	80.0%	68,875			
Black, only	23,016	12,173	52.9%	69.6%	10,120			
Native Hawaiian/Other Pacific Islander, only	15	5	33.3%	100.0%	1			
White only	4,543	2,150	47.3%	81.3%	8,095			
Multiracial/Other	1,065	694	65.2%	72.3%	9,828			
TOTAL	30,306	15,877	52.4%	71.7%	10,039			

	Adult/Adolescent Total Living HIV Cases						
COUNTRY OF BIRTH	No.	Recent Viral Load Test Result					
		No. with Test	% with Test	% Suppressed	Median Unsuppressed		
United States	26,877	13,967	52.0%	70.9%	10,267		
Foreign-born	2,368	1,250	52.8%	79.6%	9,121		
Africa	1,411	780	55.3%	79.6%	7,630		
Asia	96	52	54.2%	69.2%	15,518		
Caribbean	202	102	50.5%	75.5%	7,770		
Central America	382	199	52.1%	80.4%	29,757		
Other	277	117	42.2%	86.3%	4,810		
Unknown	1,061	660	62.2%	73.6%	7,564		
TOTAL	30,306	15,877	52.4%	71.7%	10,039		

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

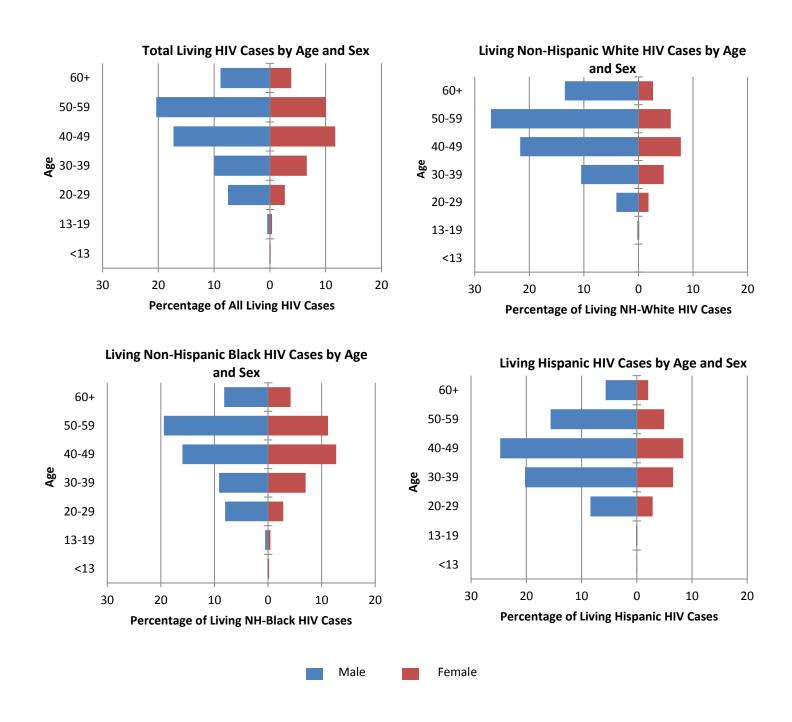
Section VI – HIV Cases by Expanded Demographics

This section discusses trends of adult/adolescent living HIV cases by age, gender, and race/ethnicity reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2014.

A few important numbers:

- Age groups with the highest rate of total living HIV cases in Maryland for all race/ethnicity:
 - Males: 50-59 year olds, 1,519.9 per 100,000, 1 in 65
 - o Females: 40-49 year olds, 830.8 per 100,000, 1 in 120
- Age groups with the highest rate of total living HIV cases in Maryland for non-Hispanic blacks:
 - Males: 50-59 year olds, 4,147.8 per 100,000, 1 in 24
 - o Females: 40-49 year olds, 2,143.8 per 100,000, 1 in 46
- Age groups with the highest rate of total living HIV cases in Maryland for non-Hispanic whites:
 - Males: 50-59 year olds, 487.1 per 100,000, 1 in 205
 - Females: 40-49 year olds, 160.6 per 100,000, 1 in 622
- Age groups with highest rate of total living HIV cases in Maryland for Hispanics:
 - o Males: 50-59 year olds, 1,054.4 per 100,000, 1 in 94
 - o Females: 40-49 year olds, 368.1 per 100,000, 1 in 271

Figure 8 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2013 and Reported through 12/31/2014



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2013 and Reported through 12/31/2014

	MALES									
AGE ON			RACE/ET	HNICITY						
12/31/2013		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	TOTAL MALES BY AGE GROUP				
	Population	67,280	152,699	216,539	55,931	492,449				
<13 (Pediatric)	Cases	1	26	1	1	29				
<13 (Fediatric)	Rate	1.5	17.0	0.5	1.8	5.9				
	Ratio (1 in X)	67,280	5,873	216,539	55,931	16,981				
	Population	28,900	87,605	133,336	25,848	275,689				
13-19	Cases	2	125	9	8	144				
13-19	Rate	6.9	142.7	6.7	31.0	52.2				
	Ratio (1 in X)	14,450	700	14,815	3,231	1,914				
	Population	50,585	125,536	202,229	34,791	413,141				
20.20	Cases	125	1,875	185	121	2,306				
20-29	Rate	247.1	1,493.6	91.5	347.8	558.2				
	Ratio (1 in X)	404	66	1,093	287	179				
	Population	56,426	104,999	180,333	35,674	377,432				
20.20	Cases	301	2,141	481	150	3,073				
30-39	Rate	533.4	2,039.1	266.7	420.5	814.2				
	Ratio (1 in X)	187	49	374	237	122				
	Population	38,640	117,240	214,277	32,500	402,657				
40.40	Cases	368	3,740	993	222	5,323				
40-49	Rate	952.4	3,190.0	463.4	683.1	1,322.0				
	Ratio (1 in X)	105	31	215	146	75				
	Population	22,002	109,721	254,360	26,834	412,917				
50.50	Cases	232	4,551	1,239	254	6,276				
50-59	Rate	1,054.4	4,147.8	487.1	946.6	1,519.9				
	Ratio (1 in X)	94	24	205	105	65				
	Population	14,683	108,957	347,381	29,455	500,476				
60.	Cases	84	1,918	618	103	2,723				
60+	Rate	572.1	1,760.3	177.9	349.7	544.1				
	Ratio (1 in X)	174	56	562	285	183				
	Population	278,516	806,757	1,548,455	241,033	2,874,761				
TOTAL MALES BY RACE/	Cases	1,113	14,376	3,526	859	19,874				
ETHNICITY	Rate	399.6	1,781.9	227.7	356.4	691.3				
	Ratio (1 in X)	250	56	439	280	144				

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2013 and Reported through 12/31/2014

	FEMALES									
AGE ON				THNICITY						
12/31/2013		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	TOTAL FEMALES BY AGE GROUP				
	Population	64,459	148,168	206,047	54,104	472,778				
<13 (Pediatric)	Cases	0	39	2	2	43				
C13 (Fediatric)	Rate	0.0	26.3	1.0	3.7	9.1				
	Ratio (1 in X)		3,799	103,023	27,052	10,994				
	Population	26,562	85,894	125,836	25,800	264,092				
13-19	Cases	2	106	7	1	116				
13-19	Rate	7.5	123.4	5.6	3.9	43.9				
	Ratio (1 in X)	13,281	810	17,976	25,800	2,276				
	Population	41,829	132,078	194,463	36,124	404,494				
20-29	Cases	43	660	84	41	828				
20-29	Rate	102.8	499.7	43.2	113.5	204.7				
	Ratio (1 in X)	972	200	2,315	881	488				
	Population	45,326	124,449	181,292	42,389	393,456				
30-39	Cases	98	1,644	212	80	2,034				
30-39	Rate	216.2	1,321.0	116.9	188.7	517.0				
	Ratio (1 in X)	462	75	855	529	193				
	Population	33,961	138,956	222,342	38,402	433,661				
40-49	Cases	125	2,979	357	142	3,603				
40-49	Rate	368.1	2,143.8	160.6	369.8	830.8				
	Ratio (1 in X)	271	46	622	270	120				
	Population	22,074	134,508	263,274	31,164	451,020				
50-59	Cases	74	2,621	271	122	3,088				
30-39	Rate	335.2	1,948.6	102.9	391.5	684.7				
	Ratio (1 in X)	298	51	971	255	146				
	Population	19,647	159,606	418,904	36,394	634,551				
60:	Cases	31	982	122	38	1,173				
60+	Rate	157.8	615.3	29.1	104.4	184.9				
	Ratio (1 in X)	633	162	3,433	957	540				
	Population	253,858	923,659	1,612,158	264,377	3,054,052				
TOTAL FEMALES BY	Cases	373	9,031	1,055	426	10,885				
RACE/	Rate	146.9	977.7	65.4	161.1	356.4				
ETHNICITY	Ratio (1 in X)	680	102	1,528	620	280				

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VII – HIV Exposure Category

This section discusses adult/adolescent HIV cases by exposure category reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2014. This section describes exposure category by sex at birth and race/ethnicity. This section also displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into demographics where current prevention and early treatment strategies should be focused.

A few important numbers:

- 955 reported adult/adolescent HIV diagnoses during 2013 with an exposure category
 - o 730 Males
 - o 225 Females
- 506 reported adult/adolescent HIV diagnoses during 2013 among Men who have Sex with Men (MSM)
- 377 reported adult/adolescent HIV diagnoses during 2013 with Heterosexual Exposure (HET)
 - 176 Males
 - o 201 Females
- 52 reported adult/adolescent HIV diagnoses during 2013 among Injection Drug Users (IDU)
- 652 reported adult/adolescent AIDS diagnoses during 2013 with an exposure category
 - 455 Males
 - o 197 Females
- 270 reported adult/adolescent AIDS diagnoses during 2013 among Men who have Sex with Men (MSM)
- 261 reported adult/adolescent AIDS diagnoses during 2013 with Heterosexual Exposure (HET)
 - 111 Males
 - o 150 Females
- 105 reported adult/adolescent AIDS diagnoses during 2013 among Injection Drug Users (IDU)

Table 18 – Adult/Adolescent HIV Diagnoses during 2013, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2014

			Adu	It/Adolesc	ent HIV Diagno	oses		
EXPOSURE CATEGORY	No.	% of Total	to Care to Care	No. of Late	% Late	First CD4 Test Result		
		Exposure			Diagnosis	Diagnosis	% with Test	Median Count
With Exposure	955	100.0%	775	81.2%	292	30.6%	83.8%	334
Men who have Sex with Men (MSM)	506	53.0%	422	83.4%	128	25.3%	85.0%	363
Injection Drug Users (IDU)	52	5.4%	34	65.4%	14	26.9%	69.2%	342
Men who have Sex with Men and Inject Drugs (MSM/IDU)	15	1.6%	10	66.7%	***	***	73.3%	241
Heterosexual Exposure (HET)	377	39.5%	304	80.6%	144	38.2%	84.6%	297
Other Exposure	5	0.5%	5	100.0%	***	***	80.0%	252
No Reported Exposure	440		340	77.3%	153	34.8%	77.0%	335
TOTAL	1,395		1,115	79.9%	445	31.9%	81.6%	335

		Adult/Adolescent Reported HIV Diagnoses									
MALE EXPOSURE CATEGORY	No.	% of Total with	No. Linked	% Linked	No. of Late	% Late	First CD4 Test Result				
		Exposure to 0	to Care	to Care	Diagnosis	Diagnosis	% with Test	Median Count			
With Exposure	730	100.0%	590	80.8%	212	29.0%	83.2%	333			
Men who have Sex with Men (MSM)	506	69.3%	422	83.4%	128	25.3%	85.0%	363			
Injection Drug Users (IDU)	30	4.1%	19	63.3%	8	26.7%	60.0%	341			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	15	2.1%	10	66.7%	***	***	73.3%	241			
Heterosexual Exposure (HET)	176	24.1%	136	77.3%	70	39.8%	82.4%	265			
Other Exposure	3	0.4%	3	100.0%	***	***	100.0%	20			
No Reported Exposure	260		198	76.2%	92	35.4%	75.0%	330			
TOTAL	990		788	79.6%	304	30.7%	81.0%	332			

	Adult/Adolescent Reported HIV Diagnoses									
FEMALE EXPOSURE CATEGORY	No	% of Total with	No. Linked	% Linked	No. of Late	% Late		D4 Test sult		
	No.	Exposure	to Care	to Care	Diagnosis	Diagnosis	% with Test	Median Count		
With Exposure	225	100.0%	185	82.2%	80	35.6%	85.8%	353		
Injection Drug Users (IDU)	22	9.8%	15	68.2%	6	27.3%	81.8%	342		
Heterosexual Exposure (HET)	201	89.3%	168	83.6%	74	36.8%	86.6%	349		
Other Exposure	2	0.9%	2	100.0%	0	0.0%	50.0%	483		
No Reported Exposure*	180		142	78.9%	61	33.9%	80.0%	346		
TOTAL	405		327	80.7%	141	34.8%	83.2%	346		

^{*} Includes 17 new HIV diagnoses with Presumed Female Heterosexual exposure

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Persont Lete LIIV Diagnosis (for LIIV diagnoses), Persont of edult/adelegant reported LIIV diagnoses with an initial AIDC diagnosis less
Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 19 – Adult/Adolescent AIDS Diagnoses during 2013, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2014

		Adult/Adolescent l	Reported AIDS Diagnos	ses
EXPOSURE CATEGORY	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	652	100.0%	4.5	47.5%
Men who have Sex with Men (MSM)	270	41.4%	3.6	52.2%
Injection Drug Users (IDU)	105	16.1%	8.5	19.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	2.1%	6.0	28.6%
Heterosexual Exposure (HET)	261	40.0%	3.7	54.8%
Other Exposures	2	0.3%	0.3	100.0%
No Reported Exposure	295		3.0	52.5%
TOTAL	947		4.0	49.1%

		Adult/Adolescent I	Reported AIDS Diagnos	ses
MALE EXPOSURE CATEGORY	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	455	100.0%	4.1	50.5%
Men who have Sex with Men (MSM)	270	59.3%	3.6	52.2%
Injection Drug Users (IDU)	58	12.7%	8.4	20.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	3.1%	6.0	28.6%
Heterosexual Exposure (HET)	111	24.4%	2.9	64.0%
Other Exposures	2	0.4%	0.3	100.0%
No Reported Exposure	179	_	2.7	53.6%
TOTAL	634		3.7	51.4%

	Adult/Adolescent Reported AIDS Diagnoses							
FEMALE EXPOSURE CATEGORY	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis				
With Exposure	197	100.0%	5.3	40.6%				
Injection Drug Users (IDU)	47	23.9%	8.7	17.0%				
Heterosexual Exposure (HET)	150	76.1%	4.3	48.0%				
Other Exposures	0	0.0%		0.0%				
No Reported Exposure*	116		3.5	50.9%				
TOTAL	313		4.6	44.4%				

^{*} Includes 12 new AIDS diagnoses with Presumed Female Heterosexual exposure

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2013 and Reported through 12/31/2014

EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS			olescent Living ses with AIDS	Adult/Adolescent Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	8,957	100.0%	13,855	100.0%	22,812	100.0%
Men who have Sex with Men (MSM)	3,692	41.2%	4,037	29.1%	7,729	33.9%
Injection Drug Users (IDU)	1,879	21.0%	4,381	31.6%	6,260	27.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	217	2.4%	554	4.0%	771	3.4%
Heterosexual Exposure (HET)	3,139	35.0%	4,812	34.7%	7,951	34.9%
Other Exposures	30	0.3%	71	0.5%	101	0.4%
No Reported Exposure	4,657	_	2,837	_	7,494	_
TOTAL	13,614		16,692		30,306	

MALE EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS			olescent Living ses with AIDS	Adult/Adolescent Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	6,133	100.0%	9,198	100.0%	15,331	100.0%
Men who have Sex with Men (MSM)	3,692	60.2%	4,037	43.9%	7,729	50.4%
Injection Drug Users (IDU)	1,157	18.9%	2,811	30.6%	3,968	25.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	217	3.5%	554	6.0%	771	5.0%
Heterosexual Exposure (HET)	1,053	17.2%	1,758	19.1%	2,811	18.3%
Other Exposures	14	0.2%	38	0.4%	52	0.3%
No Reported Exposure	2,650		1,686		4,336	
TOTAL	8,783		10,884		19,667	

FEMALE EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS			olescent Living ses with AIDS	Adult/Adolescent Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	2,824	100.0%	4,657	100.0%	7,481	100.0%
Injection Drug Users (IDU)	722	25.6%	1,570	33.7%	2,292	30.6%
Heterosexual Exposure (HET)	2,086	73.9%	3,054	65.6%	5,140	68.7%
Other Exposures	16	0.6%	33	0.7%	49	0.7%
No Reported Exposure*	2,007		1,151		3,158	
TOTAL	4,831		5,808		10,639	

^{*} Includes 127 HIV cases without AIDS and 88 HIV cases with AIDS with Presumed Female Heterosexual exposure

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2013 and Reported through 12/31/2014

		Adı	ılt/Adolescei	nt Total Living HIV	Cases				
	Race/Ethnicity								
EXPOSURE CATEGORY	Н	ispanic	Non-Hispa	nic, Black, only	Non-Hispanic, White, only				
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure			
With Exposure	1,098	100.0%	17,183	100.0%	3,523	100.0%			
Men who have Sex with Men (MSM)	458	41.7%	4,823	28.1%	2,058	58.4%			
Injection Drug Users (IDU)	129	11.7%	5,191	30.2%	676	19.2%			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	2.7%	572	3.3%	128	3.6%			
Heterosexual Exposure (HET)	476	43.4%	6,534	38.0%	631	17.9%			
Other Exposures	5	0.5%	63	0.4%	30	0.9%			
No Reported Exposure	379		5,833		1,020				
TOTAL	1,477		23,016		4,543				

		Adult/Adolescent Total Living HIV Cases								
		Race/Ethnicity								
MALE EXPOSURE CATEGORY	Н	lispanic	Non-Hispa	nic, Black, only	Non-Hisp	anic, White, only				
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure				
With Exposure	842	100.0%	11,011	100.0%	2,796	100.0%				
Men who have Sex with Men (MSM)	458	54.4%	4,823	43.8%	2,058	73.6%				
Injection Drug Users (IDU)	95	11.3%	3,368	30.6%	362	12.9%				
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	3.6%	572	5.2%	128	4.6%				
Heterosexual Exposure (HET)	256	30.4%	2,222	20.2%	226	8.1%				
Other Exposures	3	0.4%	26	0.2%	22	0.8%				
No Reported Exposure	267		3,191		710					
TOTAL	1,109		14,202		3,506					

	Adult/Adolescent Total Living HIV Cases									
		Race/Ethnicity								
FEMALE EXPOSURE CATEGORY	Н	lispanic	Non-Hispanic, Black, only		Non-Hisp	anic, White, only				
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure				
With Exposure	256	100.0%	6,172	100.0%	727	100.0%				
Injection Drug Users (IDU)	34	13.3%	1,823	29.5%	314	43.2%				
Heterosexual Exposure (HET)	220	85.9%	4,312	69.9%	405	55.7%				
Other Exposures	2	0.8%	37	0.6%	8	1.1%				
No Reported Exposure*	112		2,642		310					
TOTAL	368		8,814		1,037					

^{*} Includes 11 Hispanic cases, 185 non-Hispanic black cases, and 14 non-Hispanic white cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2013 and Reported through 12/31/2014

		Adult/Adolescent Total Living HIV Cases									
EXPOSURE CATEGORY		Recent CD4 Test Results									
EXI COOKE CATEGORY	No.	No. with Test	% with Test	Median Count	<200	200- 349	350- 499	500+			
With Exposure	22,812	14,039	61.5%	512	13.4%	15.7%	19.3%	51.6%			
Men who have Sex with Men (MSM)	7,729	4,553	58.9%	532	10.0%	14.8%	20.7%	54.5%			
Injection Drug Users (IDU)	6,260	3,923	62.7%	463	17.1%	18.5%	18.6%	45.9%			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	771	471	61.1%	472	13.8%	20.0%	20.4%	45.9%			
Heterosexual Exposure (HET)	7,951	5,031	63.3%	531	13.4%	13.9%	18.6%	54.1%			
Other Exposures	101	61	60.4%	388	24.6%	19.7%	18.0%	37.7%			
No Reported Exposure	7,494	3,734	49.8%	525	13.0%	15.2%	18.2%	53.5%			
TOTAL	30,306	17,773	58.6%	516	13.3%	15.6%	19.1%	52.0%			

^{*} Includes 215 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2013 and Reported through 12/31/2014

	Adult/Adolescent Total Living HIV Cases						
		Recent Viral Load Test Results					
EXPOSURE CATEGORY	No.	No. with Test	% with Test	% Suppressed	Median Count		
With Exposure	22,812	12,327	54.0%	71.4%	10,591		
Men who have Sex with Men (MSM)	7,729	4,164	53.9%	72.9%	13,140		
Injection Drug Users (IDU)	6,260	3,157	50.4%	66.7%	10,440		
Men who have Sex with Men and Inject Drugs (MSM/IDU)	771	384	49.8%	68.0%	14,921		
Heterosexual Exposure (HET)	7,951	4,568	57.5%	73.6%	8,288		
Other Exposures	101	54	53.5%	64.8%	26,194		
No Reported Exposure	7,494	3,550	47.4%	72.7%	9,365		
TOTAL	30,306	15,877	52.4%	71.7%	10,039		

^{*} Includes 215 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year. **Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section VIII - Disease Progression and Mortality

This section discusses adult/adolescent reported HIV diagnosis trends in disease progression by year and survival times by year of AIDS diagnosis. This section breaks down the average years from HIV diagnosis to AIDS diagnosis for those cases with an AIDS diagnosis. This section also displays mean years from AIDS to death for cases that have died and the percent dead at the year from those adult/adolescent reported AIDS diagnoses. The percent alive by years after AIDS diagnosis is also broken down by 1, 2, 5, and 10 years.

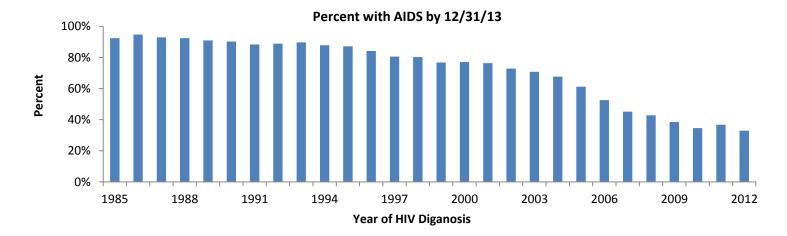
A few important numbers:

- 349 reported adult/adolescent HIV diagnoses prior to 1985
- 332 reported adult/adolescent AIDS diagnoses prior to 1985
- 1,488 reported adult/adolescent HIV diagnoses in 2013
- 490 reported adult/adolescent AIDS diagnoses in 2013

These numbers show that the time between being diagnosed with HIV and progressing to AIDS has decreased drastically. Prior to 1985, **95.1%** of HIV diagnoses were also found to be AIDS defined at the time of HIV diagnosis. In 2013, **32.9%** of HIV diagnoses were found to be AIDS defined.

Figure 9 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2012, Reported through 12/31/2014

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/12 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2013 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2013, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2012, as Reported by Name through 12/31/2014

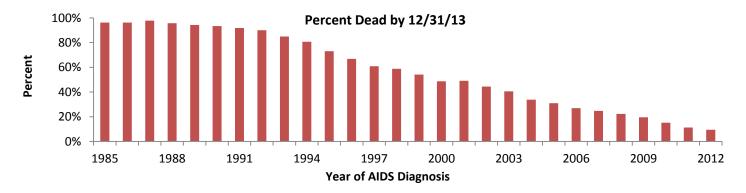


	Adult/Adolescent Reported HIV Diagnoses								
YEAR OF HIV	No.	Repo	orted AIDS Dia	gnoses	Percent	t with AIDS b Diagn	oy Years Afte osis	er HIV	
DIAGNOSIS	NO.	No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years	
<1985	349	332	95.1%	6.7	40.1%	40.1%	43.6%	67.6%	
1985	687	635	92.4%	6.2	31.6%	32.9%	40.0%	74.8%	
1986	910	862	94.7%	5.2	36.8%	37.8%	49.3%	82.0%	
1987	1,232	1,144	92.9%	4.3	38.6%	41.0%	57.7%	83.4%	
1988	1,661	1,534	92.4%	3.7	40.9%	44.7%	65.8%	85.6%	
1989	2,138	1,943	90.9%	3.5	41.1%	45.7%	68.6%	84.0%	
1990	2,205	1,990	90.2%	3.0	44.5%	51.5%	72.6%	84.8%	
1991	2,563	2,265	88.4%	2.7	46.2%	55.0%	73.1%	82.7%	
1992	2,430	2,160	88.9%	2.6	49.7%	58.1%	74.3%	82.8%	
1993	2,172	1,948	89.7%	2.2	55.2%	63.5%	77.1%	85.4%	
1994	2,004	1,761	87.9%	2.1	56.9%	64.2%	75.1%	83.3%	
1995	2,007	1,748	87.1%	2.1	58.4%	63.9%	72.8%	82.7%	
1996	1,857	1,564	84.2%	1.9	59.1%	63.5%	71.3%	80.3%	
1997	1,890	1,523	80.6%	1.9	56.5%	60.8%	68.7%	76.7%	
1998	1,853	1,487	80.2%	2.0	56.1%	59.8%	67.8%	76.0%	
1999	1,791	1,373	76.7%	1.6	56.8%	60.6%	67.7%	74.1%	
2000	1,718	1,325	77.1%	1.6	55.8%	59.4%	68.3%	74.9%	
2001	1,846	1,408	76.3%	1.3	57.4%	60.8%	69.5%	74.5%	
2002	2,099	1,528	72.8%	1.3	55.8%	59.5%	66.0%	71.4%	
2003	1,965	1,392	70.8%	1.2	55.4%	58.5%	63.9%	70.1%	
2004	2,025	1,370	67.7%	1.2	52.4%	55.5%	60.8%	1	
2005	2,092	1,280	61.2%	1.1	47.7%	50.2%	55.6%		
2006	2,213	1,164	52.6%	1.2	39.3%	41.6%	48.2%		
2007	2,281	1,031	45.2%	1.3	31.9%	34.2%	41.1%		
2008	2,165	927	42.8%	1.1	30.7%	33.6%			
2009	1,786	688	38.5%	1.0	28.8%	31.2%			
2010	1,837	636	34.6%	0.7	27.2%	30.0%			
2011	1,503	552	36.7%	0.5	30.6%	34.2%	-		
2012	1,488	490	32.9%	0.3	30.0%				

TOTAL 52,767 38,060 72.1% 2.2 46.2% 50.4% 60.4% 68.7%

Figure 10 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2012, Reported through 12/31/2014

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/12 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2013 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2013, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2012, as Reported by Name through 12/31/2014



			Adult/	Adolescent Report	ed AIDS Dia	gnoses		
YEAR OF		R	eported AIDS	Deaths	Percent	Alive by Years	s After AIDS D	iagnosis
HIV	No.			Mean Years				
DIAGNOSIS	140.	No.	% Dead	from AIDS to	1 Year	2 Years	5 Years	10 Years
4005	4.40	4.40	25.22/	Death	40.50/	04.007	44.00/	0.00/
<1985	146	140	95.9%	1.7	42.5%	21.2%	11.0%	8.2%
1985	209	201	96.2%	1.6	42.6%	19.6%	11.0%	5.7%
1986	314	302	96.2%	2.1	51.0%	32.8%	13.1%	8.3%
1987	492	481	97.8%	2.0	56.9%	31.7%	11.0%	5.5%
1988	690	661	95.8%	2.1	60.4%	37.8%	13.8%	6.4%
1989	922	869	94.3%	2.5	63.9%	43.6%	17.8%	9.8%
1990	1,173	1,095	93.4%	2.8	66.5%	47.7%	21.4%	12.2%
1991	1,465	1,345	91.8%	2.6	68.2%	48.1%	19.0%	12.8%
1992	1,952	1,759	90.1%	3.0	71.8%	50.5%	22.7%	16.9%
1993	2,254	1,917	85.0%	3.5	77.1%	56.6%	33.5%	22.8%
1994	2,171	1,751	80.7%	3.6	77.8%	58.9%	39.8%	26.9%
1995	2,170	1,586	73.1%	4.4	78.2%	67.2%	51.5%	37.4%
1996	1,953	1,306	66.9%	4.9	82.3%	75.7%	60.4%	44.2%
1997	1,686	1,026	60.9%	4.8	85.0%	77.9%	63.4%	48.7%
1998	1,544	908	58.8%	4.9	86.9%	80.8%	66.1%	49.5%
1999	1,547	839	54.2%	4.5	87.3%	80.9%	66.7%	52.0%
2000	1,423	693	48.7%	4.4	88.1%	83.6%	70.1%	56.5%
2001	1,556	763	49.0%	3.9	86.5%	79.7%	66.6%	55.3%
2002	1,630	723	44.4%	4.0	88.0%	82.9%	71.2%	59.7%
2003	1,576	639	40.5%	3.2	85.3%	80.1%	70.4%	60.9%
2004	1,539	520	33.8%	3.0	88.4%	84.0%	74.9%	
2005	1,478	457	30.9%	2.6	88.5%	84.5%	75.6%	
2006	1,311	352	26.8%	2.4	89.6%	85.7%	77.6%	
2007	1,090	270	24.8%	2.2	89.1%	86.1%	79.2%	
2008	1,038	231	22.3%	1.7	88.9%	85.5%		
2009	873	171	19.6%	1.5	90.1%	86.9%		
2010	1,009	153	15.2%	1.2	91.7%	88.8%		
2011	824	92	11.2%	0.8	93.2%	90.8%		
2012	926	88	9.5%	0.6	92.3%			
TOTAL	36,961	21,338	57.7%	3.4	81.4%	71.2%	56.3%	47.0%

Section IX - Pediatric Cases

This section provides an overview of pediatric cases including trends, pediatric cases by jurisdiction, sex at birth, and race/ethnicity. Pediatric HIV diagnoses due to perinatal transmission from an HIV-infected mother to her baby have decreased dramatically since the onset of the epidemic in Maryland in the early 1980s.

An important observation:

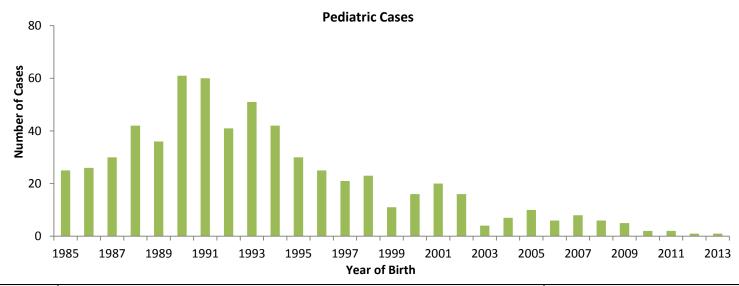
• Since 2005, there has been a decrease in cases of children with HIV that were prenatally exposed, from 10 cases in 2005 to 1 case in 2013.

A few important facts:

- In 1994, the antiretroviral medication, Zidovudine, was proven to reduce perinatal HIV transmission.
- Women with HIV who take antiretroviral medication during pregnancy as recommended can reduce the risk of transmitting HIV to their babies to less than 1%.
- It is recommended that all pregnant women receive at least one HIV test as a standard of care. To further reduce the number of children who are infected with HIV perinatally, CDC recommendations call for routine opt-out HIV testing for all pregnant women, with repeat HIV testing in the third trimester for women who meet certain criteria.

Figure 11 - Trends in Pediatric HIV Cases, 1985-2013, Reported through 12/31/2014

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2013, as Reported by Name through 12/31/2014



		Pediatric Total Living HIV Cases			
YEAR	No. by Year of	No. by Year of	No. by Year of	No. by Year of	No. Alive on 12/31 of
	Birth	HIV Diagnosis	AIDS Diagnosis	Death	Each Year
<1985	55	5	3	0	
1985	25	14	8	2	17
1986	26	15	6	4	28
1987	30	21	13	5	44
1988	42	25	13	6	63
1989	36	33	21	8	88
1990	61	50	19	9	129
1991	60	52	30	12	167
1992	41	61	38	12	215
1993	51	55	33	16	254
1994	42	42	35	16	278
1995	30	29	20	20	287
1996	25	34	26	19	297
1997	21	16	14	6	304
1998	23	20	11	6	317
1999	11	30	17	5	339
2000	16	13	5	0	351
2001	20	16	11	5	360
2002	16	18	14	3	374
2003	4	6	5	7	372
2004	7	10	7	6	376
2005	10	11	8	2	381
2006	6	15	11	4	388
2007	8	52	10	5	434
2008	6	14	12	3	446
2009	5	9	8	1	453
2010	2	5	11	6	452
2011	2	8	7	2	456
2012	1	3	3	4	456
2013	1	1	11	2	453
TOTAL	683	683	430	196	

Table 24 – Pediatric Total Living HIV Cases, Alive on 12/31/2013, by Jurisdiction, Reported through 12/31/2014

JURISDICTION OF	Pediatric Total Li	iving HIV Cases
RESIDENCE AT DIAGNOSIS	No.	% of Total
Allegany	1	0.2%
Anne Arundel	24	5.3%
Baltimore City	204	45.0%
Baltimore	43	9.5%
Calvert	2	0.4%
Caroline	1	0.2%
Carroll	2	0.4%
Cecil	2	0.4%
Charles	3	0.7%
Dorchester	3	0.7%
Frederick	6	1.3%
Garrett	0	0.0%
Harford	12	2.6%
Howard	6	1.3%
Kent	1	0.2%
Montgomery	35	7.7%
Prince George's	98	21.6%
Queen Anne's	0	0.0%
Saint Mary's	1	0.2%
Somerset	1	0.2%
Talbot	2	0.4%
Washington	2	0.4%
Wicomico	1	0.2%
Worcester	1	0.2%
Corrections	2	0.4%
TOTAL	453	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases. **Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2013 and Reported through 12/31/2014

	Pediatric Total Living HIV Cases					
SEX AT BIRTH	No.	% of Total				
Male	207	45.7%				
Female	246	54.3%				
TOTAL	453	100.0%				

	Pediatric Total Living HIV Cases				
RACE/ETHNICITY	No.	% of Total			
Hispanic	9	2.0%			
Non-Hispanic	444	98.0%			
American Indian/ Alaska Native, only	0	0.0%			
Asian, only	2	0.5%			
Black, only	391	88.1%			
Native Hawaiian/Other Pacific Islander, only	0	0.0%			
White, only	38	8.6%			
Multiracial/Other	13	2.9%			
TOTAL	453	100.0%			

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2013

YEAR OF BIRTH	Live Births	Women of Childbearing Age Total Living HIV Cases	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmissions (by year of diagnosis)	Perinatal HIV Transmission Rate
	No.	No.	No.	No.	%
2005	74,880	6,437	140	4	2.9%
2006	77,430	6,784	178	5	2.8%
2007	78,057	7,144	176	6	3.4%
2008	77,268	7,368	206	6	2.9%
2009	74,999	7,351	171	3	1.8%
2010	73,783	7,216	183	2	1.1%
2011	73,052	6,763	181	2	1.1%
2012	72,751	7,917	130*	1	0.8%
2013	71,806	7,702	165*	1	0.6%
TOTAL	674,026		1,530	30	2.0%

^{*2012-2013} reported perinatal HIV exposure and confirmed perinatal HIV transmissions data are preliminary.

Live births from Maryland Vital Statistics Annual Report 2013.

Women of childbearing age (ages 13-49) total living HIV cases and reported perinatal HIV exposures from <u>Maryland Enhanced HIV/AIDS</u> <u>Reporting System, December 31, 2014.</u>

Confirmed perinatal HIV transmissions from Maryland Enhanced Perinatal Surveillance System, December 31, 2014.

Live Births: Babies born alive in the general population.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year.

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis. **Perinatal HIV Transmission Rate:** Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Live Births: Babies born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median: The measure of central location, which divides a set of data into two equal parts.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

On ART: Estimated number of HIV Diagnosed receiving antiretroviral therapy (ART) during the specified year.

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years, and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2011.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years, and 10 years after HIV diagnosis.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Population: Population estimate for 7/1/2013.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2013.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Retained in HIV Care: HIV Diagnosed with a CD4 test result reported in the 12 months prior to December 31st of the specified year.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year